



OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	ABNORMAL

Machine Id
22C#03 500 HP
 Component
Hydraulic System
 Fluid
PETRO CANADA HYDREX MV ARCTIC 15 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

WEAR

All component wear rates are normal.

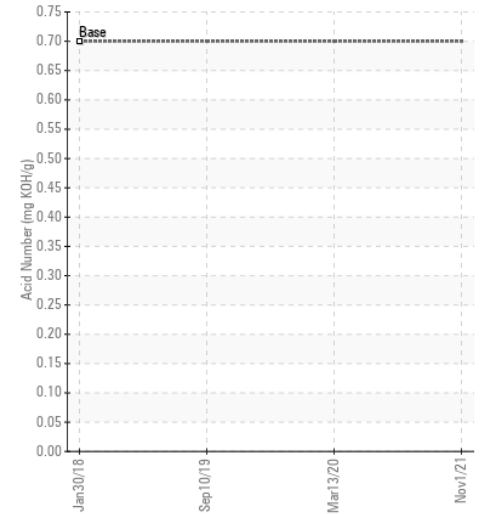
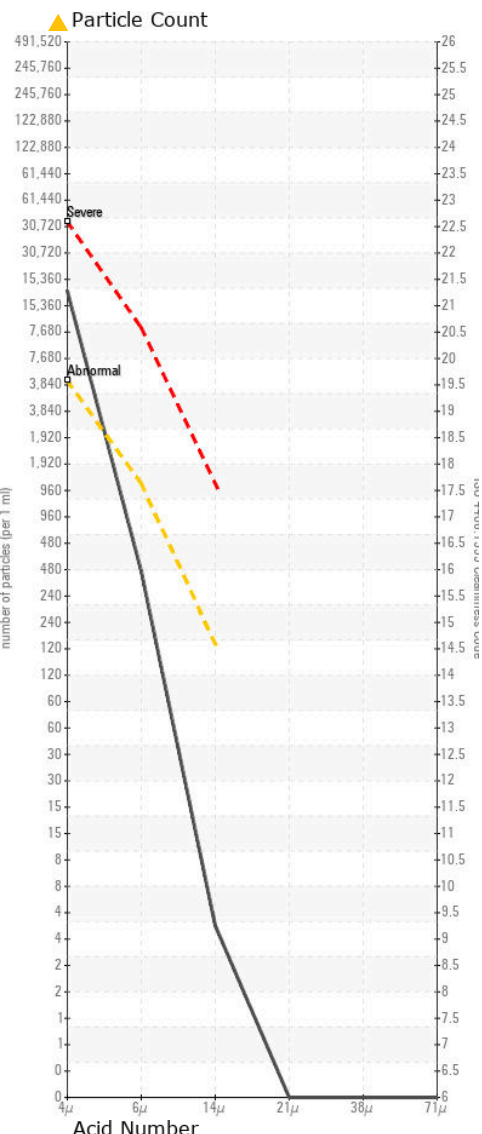
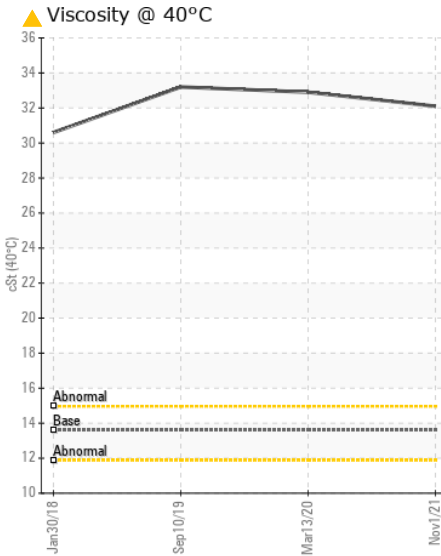
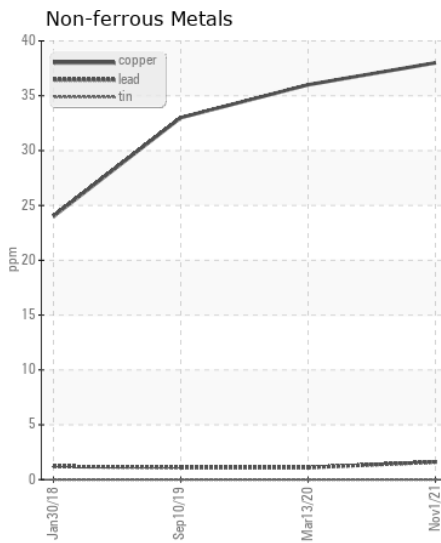
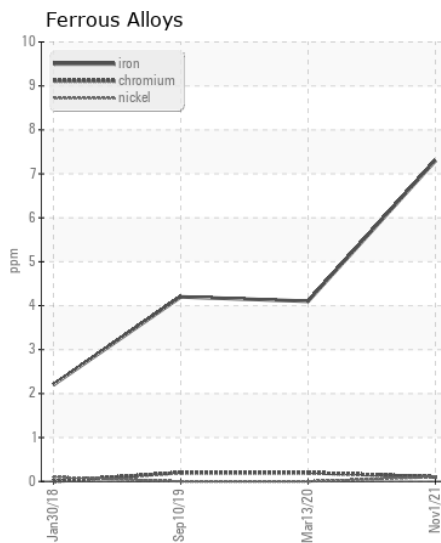
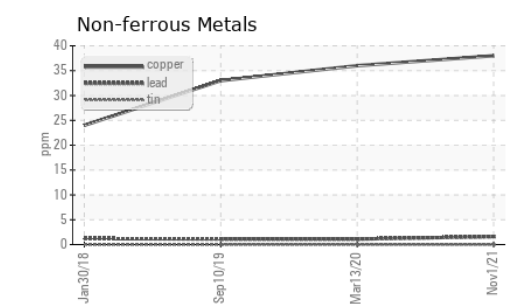
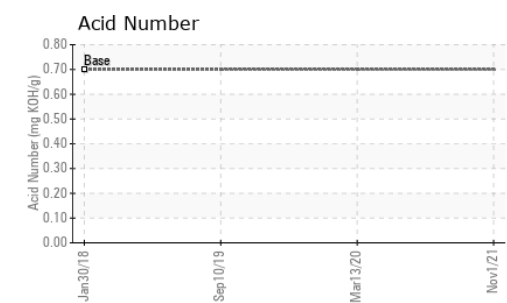
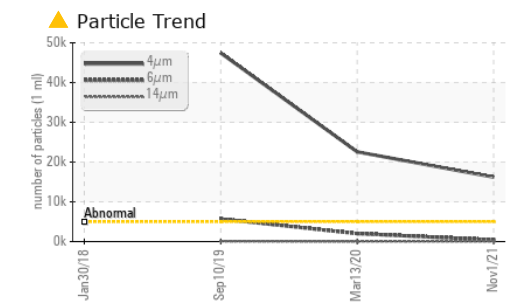
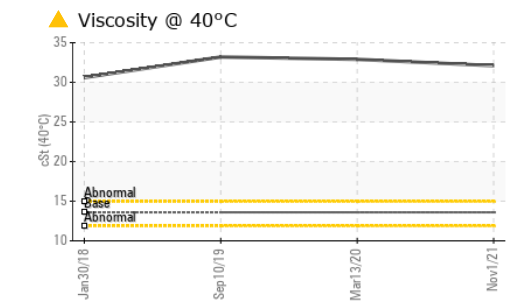
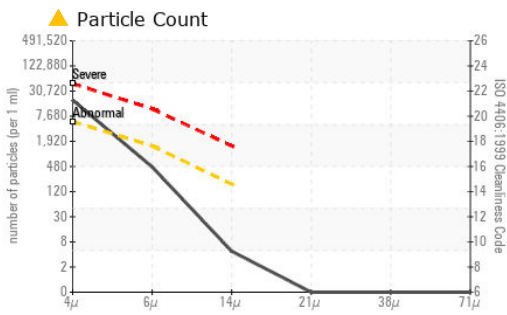
CONTAMINATION

Particles >4µm are abnormally high.

FLUID CONDITION

Viscosity of sample indicates oil is within ISO 32 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		WC0549544	WC0392706	WC0350202
Sample Date		Client Info		01 Nov 2021	13 Mar 2020	10 Sep 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
Iron	ppm	ASTM D5185(m)	>20	7	4	4
Chromium	ppm	ASTM D5185(m)	>10	<1	<1	<1
Nickel	ppm	ASTM D5185(m)	>10	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	<1
Silver	ppm	ASTM D5185(m)		<1	<1	<1
Aluminum	ppm	ASTM D5185(m)	>10	<1	0	0
Lead	ppm	ASTM D5185(m)	>20	2	1	1
Copper	ppm	ASTM D5185(m)	>20	38	36	33
Tin	ppm	ASTM D5185(m)	>10	0	0	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185(m)	>15	<1	<1	0
Potassium	ppm	ASTM D5185(m)	>20	2	1	<1
Water		WC Method	>0.05	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 16205	▲ 22566	▲ 47427
Particles >6µm		ASTM D7647	>1300	413	● 2013	▲ 5700
Particles >14µm		ASTM D7647	>160	4	24	68
Particles >21µm		ASTM D7647	>40	0	5	12
Particles >38µm		ASTM D7647	>10	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/16/9	▲ 22/18/12	▲ 23/20/13
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>0.05	NEG	NEG	NEG
Sodium	ppm	ASTM D5185(m)		19	12	13
Boron	ppm	ASTM D5185(m)	0	<1	0	<1
Barium	ppm	ASTM D5185(m)	0	0	<1	<1
Molybdenum	ppm	ASTM D5185(m)	0	<1	0	0
Manganese	ppm	ASTM D5185(m)	0	0	0	0
Magnesium	ppm	ASTM D5185(m)	0	8	4	6
Calcium	ppm	ASTM D5185(m)	50	65	63	84
Phosphorus	ppm	ASTM D5185(m)	330	464	450	454
Zinc	ppm	ASTM D5185(m)	430	416	443	488
Sulfur	ppm	ASTM D5185(m)	760	1548	1566	1551
Acid Number (AN)	mg KOH/g	ASTM D974*	0.70	0.33	---	---
Visc @ 40°C	cSt	ASTM D7279(m)	13.6	▲ 32.1	▲ 32.9	▲ 33.2



Laboratory : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
Sample No. : WC0549544
Lab Number : 02458188
Unique Number : 5317749
Test Package : MAR 2
Received : 24 Nov 2021
Tested : 25 Nov 2021
Diagnosed : 25 Nov 2021 - Kevin Marson

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To discuss this sample report, contact Customer Service at 1-800-268-2131.
 Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.
 Validity of results and interpretation are based on the sample and information as supplied.